

PWAY DT264

PWAY DT264 HDMI Extender Over Ethernet User Manual

Model: DT264

1. INTRODUCTION

The PWAY DT264 HDMI Extender allows for the transmission of high-definition audio and video signals over long distances using standard Ethernet cables. This device extends HDMI signals up to 150 meters (492 feet) via Cat5e, Cat6, Cat7, or Cat8 network cables, ensuring a stable and high-quality signal without compression or delay. It supports resolutions up to 1080P@60Hz and includes a local loop-out function for convenient monitoring.

2. WHAT'S IN THE BOX

Please check the package contents upon opening to ensure all items are present and undamaged:

- 1 x HDMI Extender Transmitter (TX)
- 1 x HDMI Extender Receiver (RX)
- 2 x Power Adapters (DC 5V)
- 1 x User Manual
- 1 x Warranty Card

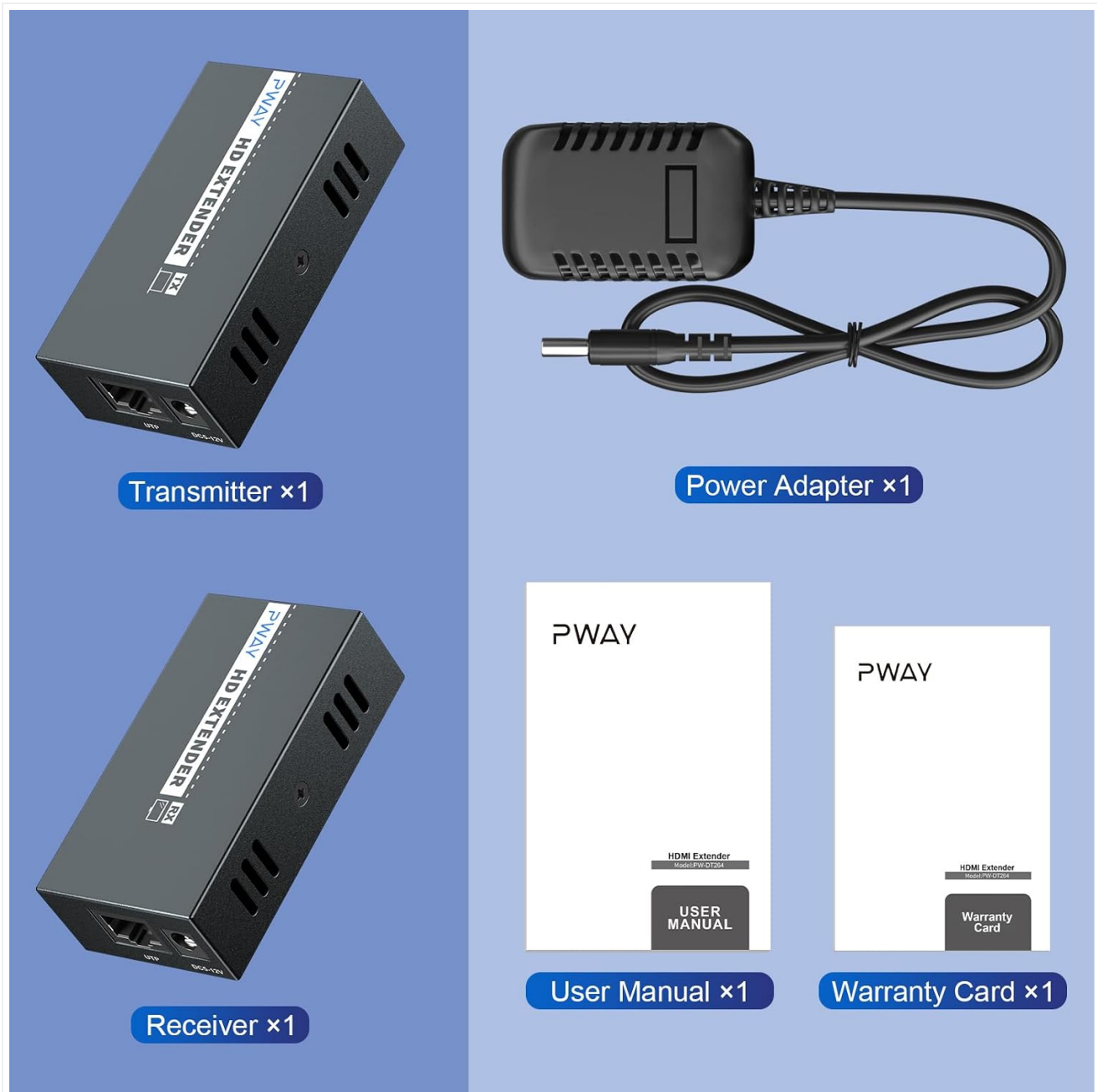


Figure 2.1: Package Contents of the PWAY DT264 HDMI Extender.

3. PRODUCT FEATURES

- **Extended Transmission:** Transmits HDMI audio and video signals up to 150 meters (492 feet) over a single Cat5e/Cat6/Cat7/Cat8 Ethernet cable.
- **Local Loop-out:** The Transmitter (TX) unit features an HDMI output port, allowing for local display monitoring at the source location.
- **High Resolution Support:** Supports resolutions up to 1920x1080P@60Hz, including 3D visual enjoyment, and is compatible with 1080i/720P/720i/480P/480i.
- **Lossless and Zero Delay:** Ensures signal transmission without compression, loss, or noticeable delay.
- **Plug and Play:** Simple installation with no software or driver installation required. Features an integrated automatic equalization system for stable and clear images.
- **Wide Compatibility:** Compatible with various HDMI source devices such as laptops, game consoles, media players, and display devices like TVs and projectors.

4. SAFETY INFORMATION

To ensure safe and optimal operation of your PWAY DT264 HDMI Extender, please observe the following safety guidelines:

- Do not expose the device to water, moisture, or extreme temperatures.
- Use only the provided power adapters. Using unauthorized power sources may damage the device and void the warranty.
- Avoid placing the device near heat sources or in direct sunlight.
- Do not attempt to open or repair the device. Refer all servicing to qualified personnel.
- Ensure proper ventilation around the units to prevent overheating.

5. PRODUCT OVERVIEW AND PORT DESCRIPTIONS

The PWAY DT264 consists of two main units: a Transmitter (TX) and a Receiver (RX). Each unit has specific ports for connection.

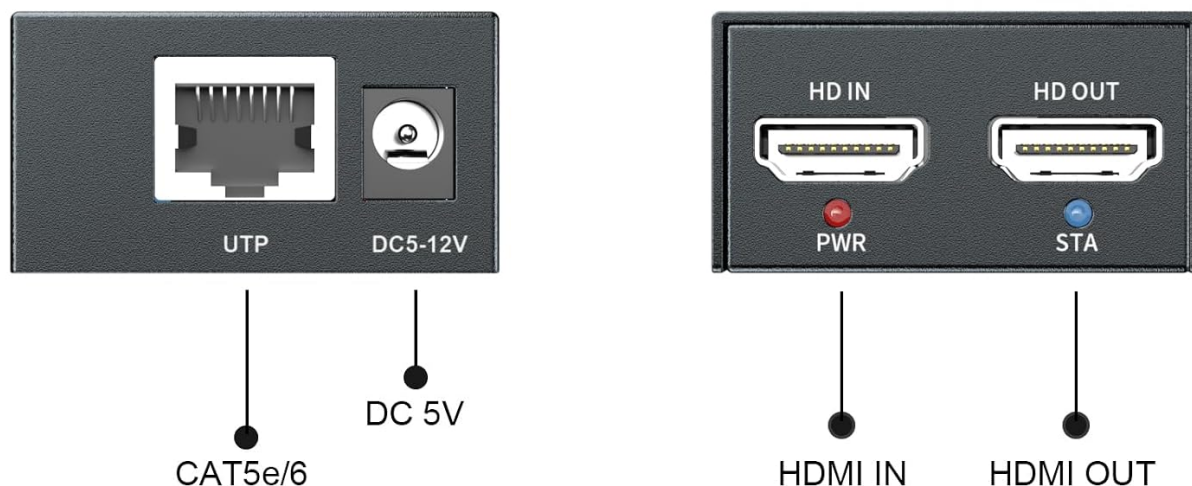
Transmitter (TX) Unit

- **HDMI IN:** Connects to the HDMI source device (e.g., laptop, game console).
- **HDMI OUT (Loop-out):** Connects to a local display for monitoring the source signal.
- **UTP:** RJ45 port for connecting to the Receiver (RX) unit via Cat5e/6/7/8 Ethernet cable.
- **DC 5-12V:** Power input port.
- **PWR LED:** Power indicator light.
- **STA LED:** Status indicator light for signal connection.

Receiver (RX) Unit

- **HDMI OUT:** Connects to the remote display device (e.g., TV, projector).
- **UTP:** RJ45 port for connecting to the Transmitter (TX) unit via Cat5e/6/7/8 Ethernet cable.
- **DC 5-12V:** Power input port.
- **PWR LED:** Power indicator light.
- **STA LED:** Status indicator light for signal connection.

Transmitter



Receiver

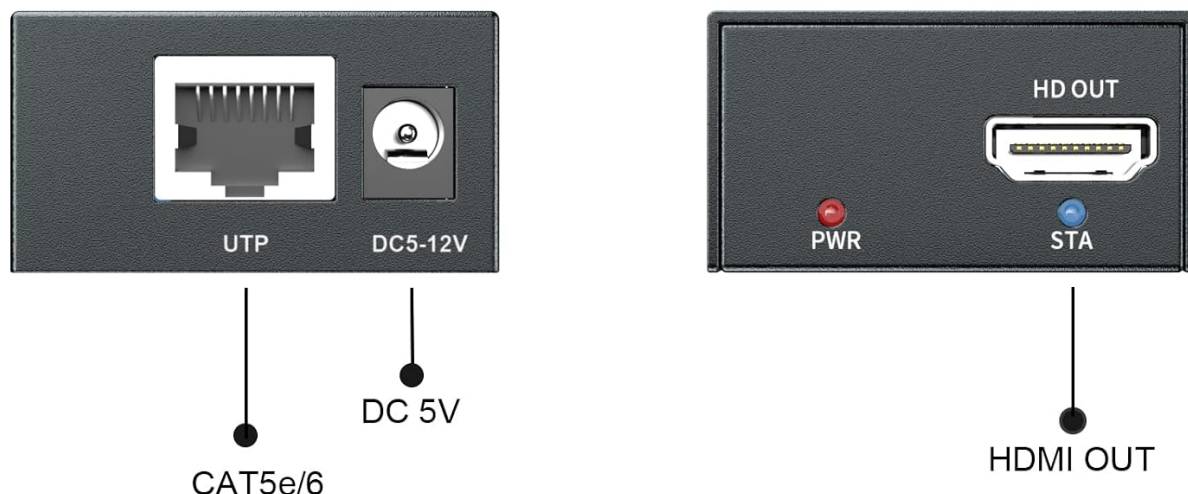


Figure 5.1: Transmitter (TX) and Receiver (RX) Port Layout.

6. SETUP INSTRUCTIONS

Follow these steps to set up your PWAY DT264 HDMI Extender:

1. **Connect the HDMI Source to the Transmitter (TX):** Use an HDMI cable to connect your HDMI source device (e.g., PC, laptop, game console) to the **HDMI IN** port on the Transmitter (TX) unit.
2. **Connect Local Display (Optional):** If you wish to monitor the source signal locally, connect an HDMI cable from the **HDMI OUT (Loop-out)** port on the TX unit to a local display (e.g., monitor, TV).
3. **Connect the Remote Display to the Receiver (RX):** Use an HDMI cable to connect your remote display device (e.g., TV, projector) to the **HDMI OUT** port on the Receiver (RX) unit.
4. **Connect TX and RX Units via Ethernet Cable:** Connect a single Cat5e/Cat6/Cat7/Cat8 Ethernet cable between the **UTP** port on the Transmitter (TX) unit and the **UTP** port on the Receiver (RX) unit. Ensure the cable is directly connected and not routed through a network switch or router for optimal performance.
5. **Power On the Units:** Connect the provided DC 5V power adapters to the **DC 5-12V** power input ports on both the Transmitter (TX) and Receiver (RX) units. Plug the power adapters into electrical outlets.

6. **Verify Connection:** Once both units are powered on, the **PWR** LED on both units should illuminate. The **STA** LED on both units should also light up, indicating a successful HDMI signal connection.

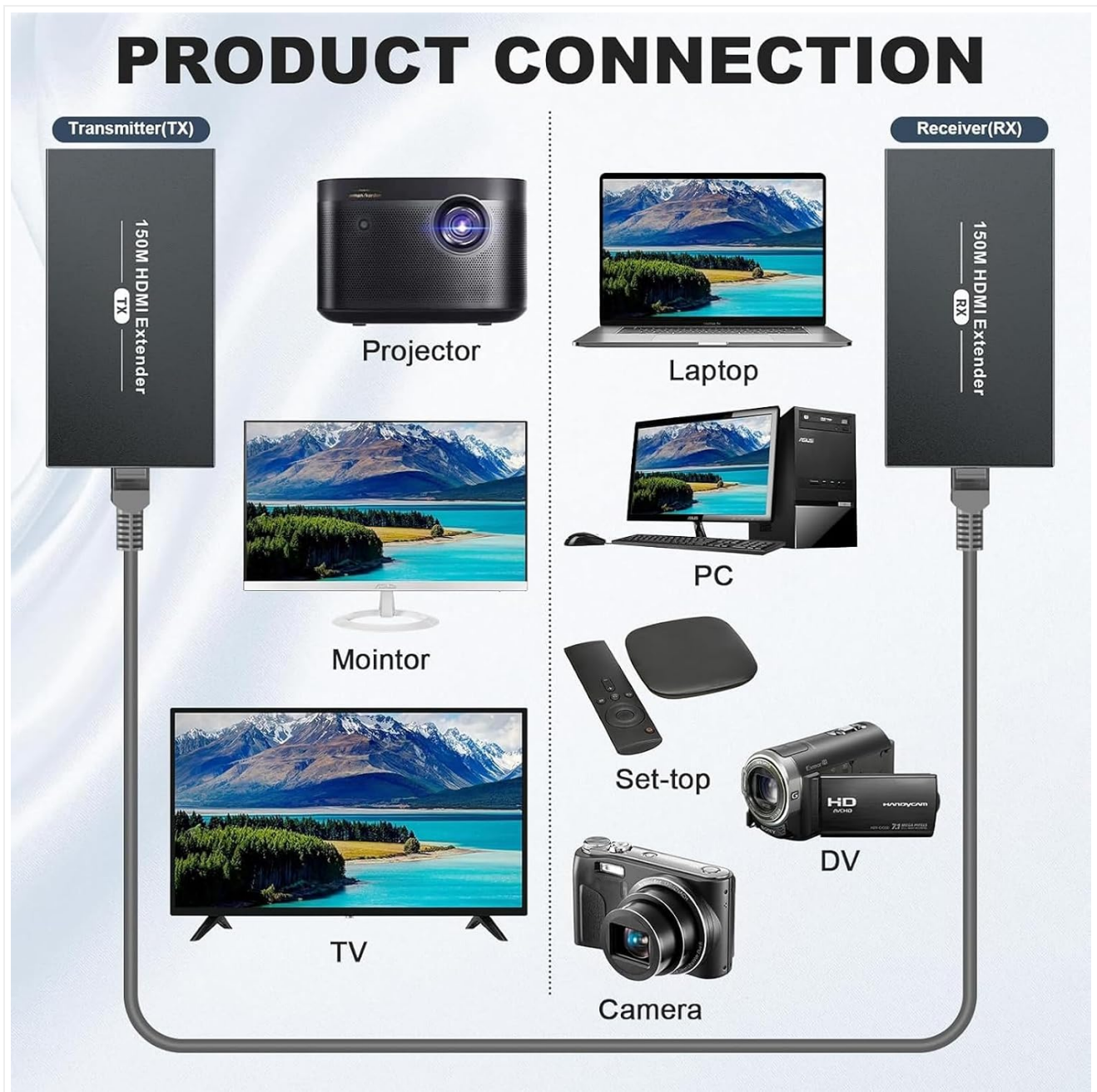


Figure 6.1: Standard Product Connection Diagram.



Figure 6.2: Local Loop-out Connection Diagram.

7. OPERATING INSTRUCTIONS

Once the setup is complete and both units are powered on, the PWAY DT264 HDMI Extender operates automatically. No further configuration is typically required.

- **Power Indicator (PWR LED):** A solid light indicates the unit is receiving power.
- **Status Indicator (STA LED):** A solid light indicates a stable HDMI signal connection between the TX and RX units. If this light is off or blinking, there may be a signal issue.
- Ensure your source device is outputting an HDMI signal and your display device is set to the correct HDMI input.

8. MAINTENANCE

To ensure the longevity and optimal performance of your HDMI Extender, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the units. Do not use liquid cleaners or aerosols.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and

extreme temperatures.

- **Cable Management:** Ensure all cables are neatly organized and not under excessive tension or bent sharply, which can damage them.

9. TROUBLESHOOTING

If you encounter issues with your PWAY DT264 HDMI Extender, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
No image on the remote display.	• No power to TX or RX unit. • Faulty HDMI cable. • Incorrect HDMI input selected on display. • Ethernet cable issue or incorrect type. • Signal interference.	• Check if PWR LEDs are lit on both units. Reconnect power adapters. • Test HDMI cables with other devices. Replace if necessary. • Ensure the display is set to the correct HDMI input. • Verify the Ethernet cable is Cat5e/6/7/8 and properly connected. Ensure it's a direct connection, not through a network switch. • Reduce cable length if possible, or use a higher quality Ethernet cable.
Poor image quality or flickering.	• Ethernet cable too long or low quality. • Signal interference. • Resolution mismatch.	• Ensure Ethernet cable length is within 150m (492ft) and use Cat6/7/8 for longer distances. • Check for strong electromagnetic interference sources nearby. • Ensure source and display devices support the same resolution.
STA LED is off or blinking.	• No HDMI signal input. • Ethernet cable not connected or faulty.	• Verify the HDMI source is active and connected to the TX unit. • Check the Ethernet cable connection between TX and RX. Replace if damaged.

10. SPECIFICATIONS

Feature	Specification
Model Number	DT264
Manufacturer	PWAY Technology
HDMI Version	HDMI 1.3, HDCP 1.2
Supported Resolutions	1080P@60Hz, 1080i, 720P, 720i, 480P, 480i
Transmission Distance	Up to 150m (492ft) via Cat5e/6/7/8 Ethernet cable
Power Supply	DC 5-12V (Power Adapters included)
Product Dimensions	18 x 12.2 x 4.2 cm (approx.)
Item Weight	390 grams (approx.)
Compatible Devices	Laptops, Game Consoles, MP3/MP4 Players, TVs, Projectors

11. WARRANTY AND SUPPORT

PWAY provides a 1-year warranty for this product, along with lifetime maintenance support. For any technical assistance or warranty claims, please contact PWAY customer service through your purchase platform or the official PWAY website. Please retain your proof of purchase for warranty validation.